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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/699,713	11/	/03/2003	James R. Becker	P-3382.6	3526
23122	7590	01/11/2005		EXAMINER	
RATNERI	PRESTIA		DOERRLER, WILLIAM CHARLES		
P O BOX 980 VALLEY FORGE, PA 19482-0980				ART UNIT	PAPER NUMBER
	,			3744	
			DATE MAILED: 01/11/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

Sp

	Application No.	Applicant(s)				
Office Astion Summer.	10/699,713	BECKER, JAMES R.				
Office Action Summary	Examiner	Art Unit				
	William C Doerrler	3744				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
Responsive to communication(s) filed on This action is FINAL.						
Disposition of Claims						
 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on <u>03 November 2003</u> is/are: a) ☒ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3-24-2004,7-26-04	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa					

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DETAILED ACTION

Claim Objections

Claim 19 is objected to because of the following informalities: In the claim, "said forming chamber" lacks clear antecedent basis since the forming chamber was claimed in claim 17, not claim 16 from which claim 19 depends. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3,7-9,14-16 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Hyde.

Hyde shows a carbon dioxide slab production device which uses a ram to compress the solids while venting the vapor (see lines 11-19 of column 4). A dagger board 20 is closed during the early compression and is opened to permit extrusion through die 22 (col. 5 lines 50-59). The dagger board is also used to cut the extrusion when a certain length is detected (col. 6 lines 16-28).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4,5 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hyde in view of Marcus et al.

Hyde discloses applicants' basic inventive concept, a dry ice extruded which compacts the dry ice prior to extrusion and cutting, substantially as claimed with the exception of a forming channel to allow the block to set prior to breaking. Marcus et al's chamber 27 represents a position to allow the dry ice to set prior to be broken. It would have been obvious to one of ordinary skill in the art at the time of applicant's invention from the teaching of Marcus et al to allow the dry ice to set to reduce the chance of breakage during moving of slab.

Claims 6,10-13,18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hyde in view of Marcus et al as applied to claims 4,5 and 17 above, and further in view of Anderson et al.

Hyde, as modified, discloses applicant's basic inventive concept, a dry ice extruder which compacts the dry ice prior to extrusion, substantially as claimed with the exception of tapering the extrusion die and using a pneumatic cylinder to power the block which breaks the slab. Anderson et al show these features to be old in the art in figure 6 and lines 28-28 of column 10. It would have been obvious to one of ordinary skill in the art at the time of applicant's invention from the teaching of Anderson et al to modify the cry ice extruder of Hyde by using pneumatic power to provide an efficient and easily controlled block to break the dry ice and to taper the die to ensure proper extrusion.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Umino et al and both Wade patent s show carbon dioxide extusion devices.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C Doerrler whose telephone number is (571) 272-4807. The examiner can normally be reached on Monday-Friday 6:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Denise Esquivel can be reached on (571) 272-4808. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William C Doerrler Primary Examiner Art Unit 3744

WCD